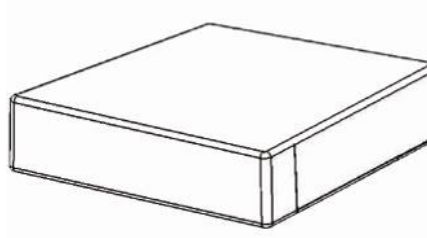
Motion Activated Hidden Video Recording System Manual

Patent No. M356942

SleuthGear Recluse



P/N: F40072B01

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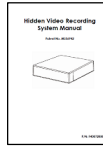
Package Contains

Motion Activated Black Box

IR remote control

Power adapter (12VDC)

AV Output cable



User manual

3.7V 4800mA Li-polymer battery

Software CD

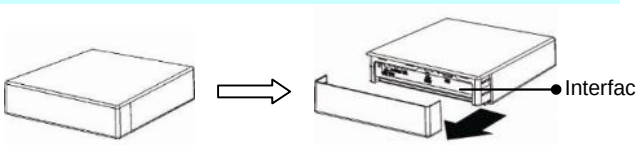
Charger cradle for Li-polymer battery (optional)

Micro SD card (optional)

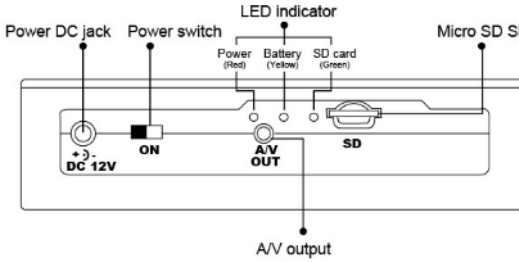
Quick Setup

Step 1: Open the back cover
Step 2: Fully charge the battery for **10 hours** for the first time using (please backup or format Micro SD card regularly to keep it efficient)
Step 3: Insert Micro SD card into Micro SD slot. Class 6 or above level would be highly recommended.
Step 4: Switch the power to "ON" (power switch) to turn on Motion Activated Black Box. The LED will be on. To turn off Motion Activated Black Box, switch the power to other side, when the final recording ended, all LEDs will be off.
***Set** the DATE/TIME to current date and time before recording; or the recording date and time will be incorrect.
***Use** bundled accessories. Damage which is caused by other device will be beyond warranty

How to open Motion Activated Black Box



Interface

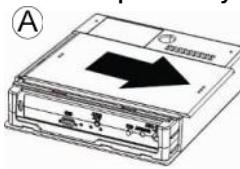


LED Indicator status

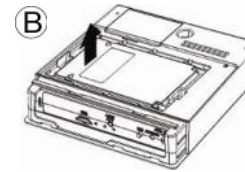
Red LED	**On** Power on	x	**Off** Power off
Green LED	**On** System ready, Micro SD card normal, and has schedule	**Blinking** System and Micro SD card normal, but doesn't have schedule	**Off** System not ready or Micro SD card abnormal
Yellow LED	**On** Battery charging	**Blinking** Running out of battery, please charge it	**Off** Battery not charging

Installation

1. How to open battery cover

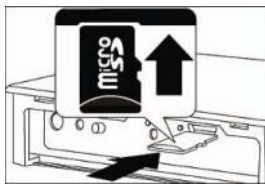


Turn the device upside down. Firstly open back cover and then slide off the battery cover according to the direction of arrow (from two points to three points)



After removing the battery cover, take out the battery for charging or changing the battery. **Please make sure of the right direction when slide battery back into place.**

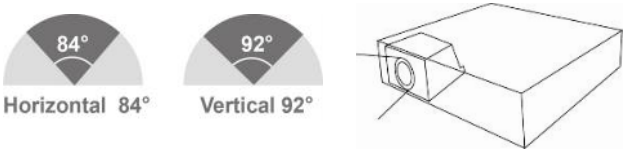
2. How to insert/ draw out Micro SD card



F
device. Insert micro SD card in the slot. ***Never force the card into slot & make sure the direction is correct***. Press micro SD card for drawing out.

* Always power off the unit before removing the Micro SD card, otherwise, the card may be damaged.
* Never remove Micro SD card from your computer without using the "Safely Remove Hardware" icon in your computer system tray .

3. Coverage angle of the camera and PIR sensor



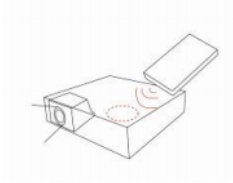
**The best IR performance distance will be 3 meters.

4. How to charge the battery

Connect bundled power adapter to power DC jack. The yellow LED will be on if the battery is charging. Please fully charge for **7~8 hours**. *(Please charge for **10 hours** when you charge the battery for the first time.)* With the optional cradle, the charging time is around **3 hours** and the green LED will be on. The battery, after fully charged, can last for **6.5 hours** at least under continuous recording. Under motion activation or power saving when out of schedule, Motion Activated Black Box can last for longer.

* NOTE: Under low temperature conditions, the battery will have a shorter life than normal
* NOTE: Please use the bundled power adapter only. Damage which is caused by other power adapter will be beyond warranty.
* NOTE: Please charge the battery immediately after you receive the unit
* NOTE: For better commanding the unit, users are highly recommended to charge the battery once every 3 months to activate Li-polymer battery.

5. IR Remote control sensing area



Please point the IR remote control at the marked area

Compatible Storage

The below micro SD cards are tested with CH0705.
* Apacer class 6 4GB micro card
* Toshiba 4G MicroSD
* Sandisk 2GB micro card
* Team 2G MicroSD / 4G MicroSD
* Transcend class 6 16GB micro card
* Transcend 1G MicroSD
* Kingston 4G MicroSD

*** For those micro SD cards aren't be tested which doesn't mean they are not compatible. We would highly recommend to use the micro SD card for Class 6 or above. Class 6 or above will have smoother footage.**

Start to record

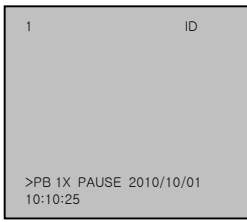
Once power on unit, recording is factory preset at Sensor (PIR) recording mode. It can also be reset as continuous recording through MENU. Sensor (PIR) mode is when there's motion, the Black Box will automatically boot up for recording within 2 seconds. Once the motion ended, it will remain recording for 5 seconds (10/15/20 seconds are selectable on OSD menu) then turn off the DVR automatically after 15 seconds (30/60 seconds are selectable on OSD menu) in order to save power.

* Please press "menu" key before taking away the Micro SD card; otherwise, the recording will not be saved onto Micro SD card.

Playback Function

Press ▶ key on remote control to get into playback menu. You can use “Time search” to enter the date/time which you would like to view. Or get into “Event Search” to see the event list and press OK button to playback from a selected recording.

PLAYBACK Instruction



1. ID CAM_01: the ID of recording
2. >: Playback
3. <: Rewind playback
4. PB: Playback mode
5. 1X: Speed of playback, 1X/ 2X/ 4X/ 8X
6. PAUSE: Pause palyback
7. 2010/10/01: Date of recording
8. 10:10:25: Time of recording

Remote Control Diagram

Numeric Key

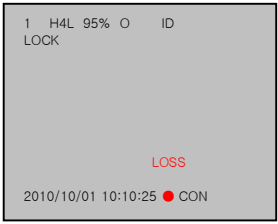
Button	Function	Description
		Universal password: UP/UP/DOWN/DOWN/+/+/-/-
●	Panic Record	Start to Record manually. Press again to cancel recording mode
	KEYPAD	Virtual keypad input
	Lock	Key lock
	MENU/Exit	Menu mode or Exit to last page
▲ ▼ ◀ ▶	UP (7) DOWN (0) LEFT (8) RIGHT (9)	Confirm the setting/change Still image (snapshot)
OK	Enter	Confirm
+ −	Plus Minus	Adjust Value

▶	Play (1)	Into playback menu or start to play
⏸	Pause (2)	Pause playback, press again to play frame by frame
◀	Re-wind (4)	Rewind playback
▶▶	Fast forward (6)	Fast forward play 2/4/8 times
◀◀	Fast rewind (5)	Fast rewind play2/4/8 times
■	Stop (3)	Stop playback

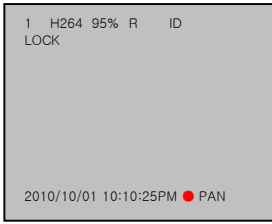
Screen Icons

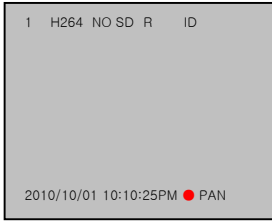
When you get into MENU or PLAY mode, it would need password if Black Box is in key lock mode. Please enter password (default: **1234**) and press OK . If password is correct, user can get into MENU or PLAY mode. If it is incorrect, the password will go back to the first digit.

LIVE/RECORD Instruction



1. CH01: Channel 1
2. H4L: H.264 compression
3. 95%: Micro SD Card free capacity
4. NO SD: Micro SD card not inserted
5. R: Recycledly writing Micro SD card. If Micro SD card is full, it overwrites the oldest data (appear only when Micro SD card is inserted)





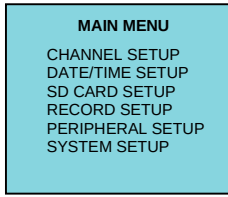
6. O: Write once to Micro SD card. If Micro SD card is full, #3194075 will stop recording (appear only when Micro SD card is inserted)
7. 00000001: Camera ID
8. LOCK: Key locked
9. LOSS: Camera input loss, it will go back to blue screen
10. 2010/10/01: Date
11. 12:14: 50: Time (24H format)
12. 12:14: 50AM: Time (12H format if shows AM or PM)
13. ●: Recording mode
14. CON: Continuous recording mode
15. ALARM: Alarm recording mode
16. NONE: Not recording

1

OSD Menu Structure Tree

- I. CHANNEL SETUP
  - TITLE SETUP
  - COLOR SETUP
  - AUTO BRIGHTNESS
- II. DATE/TIME SETUP
- III. SD CARD SETUP
  - SD INFORMATION
  - SD REC MODE
  - SD FORMAT
- IV. RECORD SETUP
  - RECORD MODE
  - CONTINUOUS
  - RECORD
  - PIR RECORD
- V. PERIPHERAL SETUP
  - BUZZER SETUP
    - KEY BEEP
    - VIDEO LOSS
    - BEEP TIME
  - RELAY SETUP
- VI. SYSTEM SETUP
  - DVR ID
  - FACTORY DEFAULT
  - FIRMWARE UPGRADE
  - PASSWORD SETUP

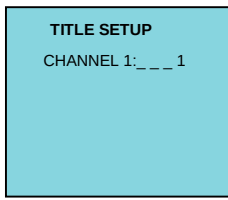
Menu Operation



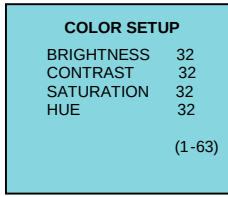
1. Press [≡] to enter MAIN MENU
2. Press [▲] [▼] to select item
3. Press [OK] to enter the selected item
4. Press [≡] to get back to live view

I. Channel Setup

1. Press [▲] [▼] to select item
2. Press [OK] to enter the selected item

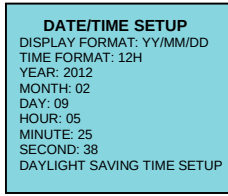


1. Press [+] [−] to change value
2. Press [◄] [►] to change cursor



1. Press ▲ ▼ to select item
2. Press + − to change value

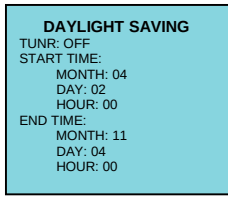
II. DATE/TIME SETUP



1. Press ▲ ▼ to select item
2. Press + − to change value

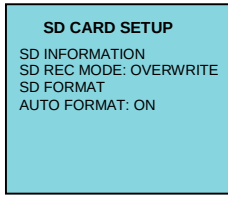
* Display Format: YY/MM/DD, MM/DD/YY, or DD/MM/YY.

* Time Format: 12H/ 24H



1. Press ▲ ▼ to select item
2. Press + − to change value

III. SD CARD SETUP



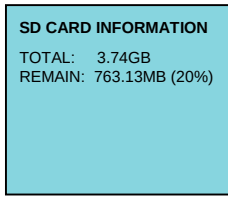
1. Press ▲ ▼ to select item

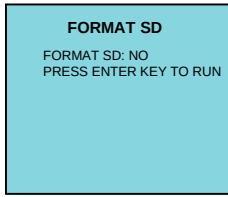
SD CARD INFORMATION: Press OK to enter

SD REC MODE: Press + − to change mode (FULLSTOP:OVERWRITE)

SD FORMAT: Press OK to enter

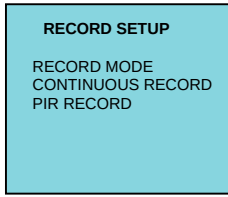
AUTO FORMAT: Press + − to change



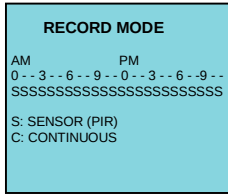


1. Press + − to change mode
2. Press OK to run

IV. RECORD SETUP

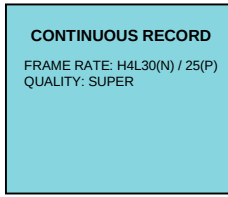


1. Press ▲ ▼ to select item
2. Press OK to enter the selected item

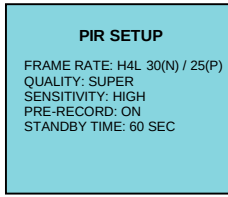


1. Press ◄ ► to change cursor
2. Press + − to change value

*Default value: Sensor (PIR) recording mode
*Double click OK and record mode will be automatically change to the select one.

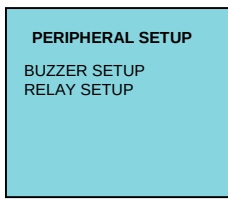


1. Press + − to change value
2. Frame rate adjustable by users:
   - H4L 30(N)/25(P);
   - H4L 15(N)/12(P);
   - H4L 8(N)/6(P);
   - H4L 4(N)/4(P);
   - H4L 2(N)/2(P);
   - JPEG 2(P)/(N);
   - JPEG 4(P)/4(N);
   - JPEG 6(P)/8(N);
   - JPEG 12(P)/15(N);
   - JPEG 25(P)/30(N)
3. Quality adjustable by users: Low/ STD/ High/ Super

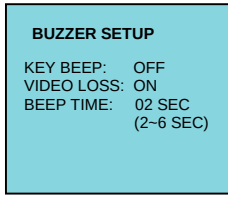


1. Press + − to change value
2. Frame rate adjustable by users:
   H4L 30(N)/25(P);
   H4L 15(N)/12(P);
   H4L 8(N)/6(P);
   H4L 4(N)/4(P);
   H4L 2(N)/2(P);
   JPEG 2(P)/(N);
   JPEG 4(P)/4(N);
   JPEG 6(P)/8(N);
   JPEG 12(P)/15(N);
   JPEG 25(P)/30(N)
3. Quality adjustable by users: Low/ STD/ High/ Super
4. Standby time: 60/30/15 sec selectable (DVR will turn off automatically in 60/30/15 seconds after the detection of PIR sensor ends)

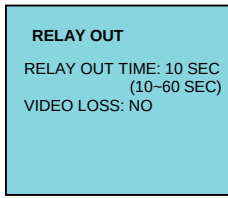
V. PERIPHERAL SETUP



1. Press ▲ ▼ to select item
2. Press OK to enter the selected item

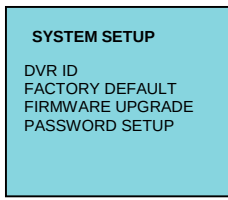


1. Press ▲ ▼ to select item
2. Press + − to change value

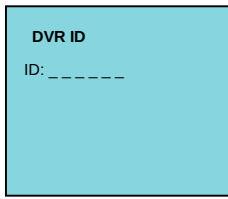


1. Press ▲ ▼ to select item
2. Press + − to change value

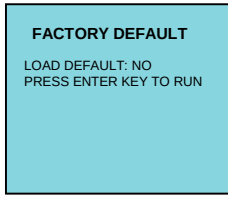
VI. SYSTEM SETUP



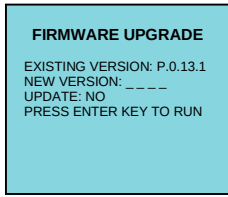
1. Press ▲ ▼ to select item
2. Press OK to enter the selected item



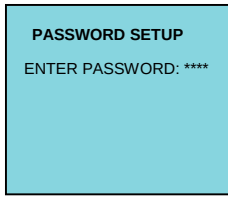
1. Press ◄ ► to change cursor
2. Press + − to change value



1. Press + − to change value



1. Press ▲ ▼ to select item
2. Press + − to change value



1. Key in default value (1234) first and press OK
2. It will enter “NEW PASSWORD SETUP” and please key in new password
3. Press ◄ ► to change cursor
4. Press + − to change value

PLAYBACK MODE

SEARCH

TIME: 2012/02/01 16:03 RUN
EVENT SEARCH
BEGIN: 2012/02/01 16:03:38
END: 2012/02/02 15:37:37

In the Playback screen

1. Press ▶ to enter SEARCH MENU
2. Press ▲ ▼ to select item & + − to change value
3. Press OK to run

EVENT SEARCH (PAGE 001)

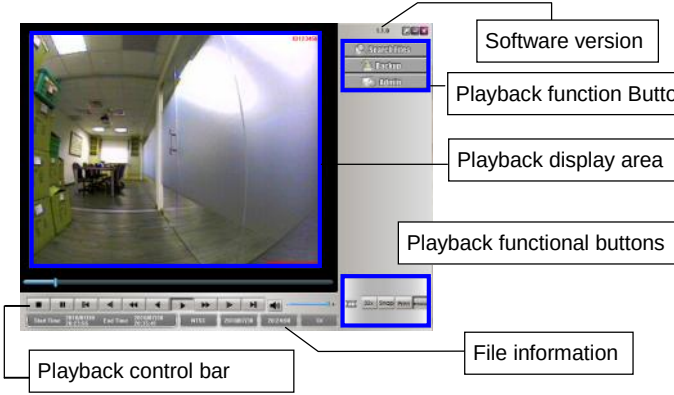
NO	YY/MM/DD	HH:MM:SS	MODE
1	12/02/02	15:36:28	S
2	12/02/02	15:35:11	S
3	12/02/02	15:33:04	S

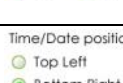
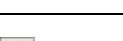
S: SENSOR(PIR) L: LOSS
C: CONTINUOUS P: PANIC

EVENT SEARCH

1. Press ▲ ▼ to select item
2. Press OK to playback the event

Software



	Search Files		Backup DVR file
	Login		Select Path
	Enter		Backup format
	Set Start Time		Set End Time
	Export backup file		Cancel
	Time/ Date on		Time/ Date format
	Time/ Date top left		Change account and password
	Multiply 32 times the original speed		Save JPEG picture
	Print		Enhance the resolution
	Audio adjust		Mute

Playback control bar:

Stop	Pause	Last	-1/2X	-2X	-1X	1X	2X	1/2X	Next

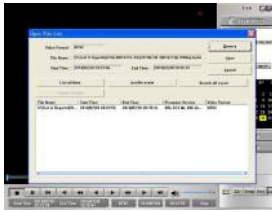
File information:

* Computer Requirement: Dual Core CPU or above , 1GB RAM or above
* Operation System Requirement: Windows XP, Windows Vista 32bit, Windows7 32bit, Windows7 64bit or above
* **PC has to be installed with Sound Card, which makes PC have audio function. Otherwise, PC may not be able to run the software.**

Software Operation Procedure

Search Files

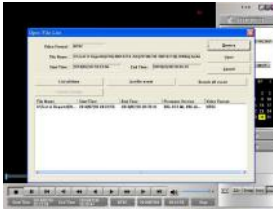
Click



Press

and then press

Select a folder with DVR files and press “OK”



Double click the selected recording file to playback or click the selected recording file and press “Open” to playback.

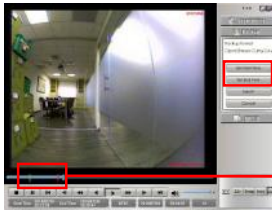
File searching method:

- List all time : list all the recording sessions in the folder you browse.
- List file event : list the event which you select in “List all time”
- Search all event : list all the events in the folder you browse (max. 1000 events)
- Format storage : Format SD card easily

Backup Files

Press Backup and choose backup format (DVR/ WMV/ AVI/ JPG) and choose backup channel.

- Backup as DVR format: Can only backup four channels
- Backup as WMV/ JPG format: backup four channels or individual channel
- Backup as AVI format: backup four channels or individual channel; backup resolution as CIF or D1.



During the playback, you can press Set Start Time to set start time to backup file.

Then, press Set Start Time to set end time to backup file.

- Green bar: backup start time
- Red bar: backup end time

Press Export to export backup file to PC, or

Press Cancel to cancel Backup Start time and End time

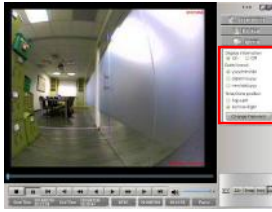
Playback Files

Move the mouse cursor to the place you want to enlarge. Right click to zoom in. Right click again to get back to the original scene.

Admin

Click Admin and key in account and password.

Default: root/ root



- Display information: On/Off
- Date format: yyyy/mm/dd dd/mm/yyyy mm/dd/yyyy
- Time/Date position: Top Left/ Bottom Right

Press Change Password to change account and password in Admin area.

FAQ

Q1. What player software should I use to playback the recording files?

Ans. Our bundled software is most recommended. You could use the bundled software to transfer the files into AVI, WMV format, then you could use "Windows Media Player" for playing. A lot more other capable player can playback the record files, such as VLC, etc.

Q2. How long can date/time stay working without power supply?

Ans. Unit could self power for 3 months without other power supply (including battery power supply)

Q3. Why can't I power on the device?

Ans.

1. Make sure the battery is well placed and has enough power inside.
2. When you use the remote control, make sure it facing to the IR remote control sensing area (please kindly refer to the bottom of page 6).
3. The device was working if the LED was on and buzzer beeped when the device powered on. Please make sure you connect monitor appropriately.
4. If the device cannot be powered on, please contact your dealer.

Q4. How does sensor (PIR) mode work?

Ans. The default recording mode will be sensor mode. In this mode, after turn on the DVR, if there's no any motion, it'll automatically shut down the DVR for saving power. When it detects the motion, it'll auto boot up within 2 seconds then start recording. When the motion ends, it'll record 5/10/15/20 more seconds and then shut down the DVR in 15/30/60 seconds again according to your setting.

*** Please be sure the power switch is on for the auto boot up under sensor mode.**

Specifications

Video System	NTSC / PAL
Compression	H.264
Video resolution	720x480 (NTSC) / 720x288 (PAL)
Recording frame rate	6/8, 13/15, 25/30 fps
Recording Mode	Continuous, Sensor
Pre-recording	Suported
Post Recording	Yes, 10 secs
Image Sensor	1/4", 720x480 (NTSC)/ 720x576 (PAL)
Lens	2.5mm
IR LED	940nm
PIR Angle	Horizontal 84; Vertical 92
Audio recording	Yes (Optional)
A/V connection	RCA composite AV output
Power supply	Changeable and rechargeable 3.7V 4800mAh Li-polymer battery
Storage Media	Micro SD card (1G to 32G, SDHC Class 6 is recommended)
Control	IR remote control
LED indicator	Red, Yellow, Green
Time/Date stamp	Yes
Time/Date Battery	Lasts for 3 months w/o power supply
Power failure	Auto Recovery
Firmware Upgradable	Yes, through micro SD Card
Current consumption	Operation mode : 2.6W Standby mode : 2.5W Sleep mode : 0.12W (Approx.)
Operation temp.	+0~+40°C
Dimension	120(L)x120(W)x30.5(H) mm

*** If there is no schedule and external trigger deactivated, the device will enter sleep mode after 30 seconds without control.**

Thank you for purchasing our Hidden Video Recorder System. Please read this manual before installation.

Please fully charge the battery immediately after you receive the unit; otherwise, the unit may not be turned on.

For customer support, please contact your dealer, and please keep your Invoice for further support.

Do not open/modify the device, as it may cause damage to the unit. For internal repairs, consult your dealer or an Authorized Service Center.

Do not use any accessories other than what comes with the unit; otherwise, it would be out of warranty.

Protect from humidity. Do not put it in water and be careful to protect it from rain, sea water, or high humidity environment etc.

Protect from high temperatures
To avoid damage or mis-operation of the device, only use in temperature of 0 ~ +40°C.

Do not bring the device suddenly from a hot to a cold place, or vice versa. This may cause damaged to the inside of the unit by creating condensation.

EU Environmental Protection
The symbol of crossed-out garbage shows that this product should not be treated as household waste, and it falls into the category of ***electric /electronic*** equipment for recycling. This electronic device should not be disposed in a regular trash. We strongly advice you to contact related authorization before you dispose this product.